

Commissioner for Patents
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Response to Office Action dated August 26, 2005
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Serial No.: 09/935414
Art Unit: 2154
Examiner: Hu
Docket No. AUS9 2001 0135 US1

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 (previously amended). A web server having a user space and an operating system space, wherein the user space includes comprising:

~~a user-space~~ an application level interpreter configured to process a client requests request;

at least one ~~user-space~~ kernel extension device driver enabling the application level interpreter to communicate with a network interface to receive the client request; and

~~a user-space~~ transmission protocol library, including TCP/IP library routines, enabling the web server to process the client requests request and the corresponding responses response within the user space[[:]]

~~wherein the web server is configured to poll the network interface periodically.~~

2 (original). The server of claim 1, wherein the interpreter comprises an HTTP interpreter.

3-4 (canceled).

5 (currently amended). The server of claim [[4]] 1, wherein the library includes only those routines necessary for processing of requests to and responses from the interpreter.

6 (original). The server of claim 1, wherein the web server includes a user space file cache.

7 (original). The server of claim 1, wherein the web server is configured to initiate multiple threads within its user space responsive to user requests.

8 (original). The server of claim 7, wherein the threads include threads selected from the group of threads including perl scripts, cgi threads, and Java servlets.

9 (currently amended). A web server comprising:

processor, memory, and input means;

a dedicated network interface and a general purpose network ~~interface~~ interface;

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~~an a user space~~ application level interpreter configured to process ~~a client requests~~
request;

user space kernel extension device drivers enabling the application level interpreter to
 communicate with the dedicated network interface to receive the client request; and

a user space ~~transmission protocol library~~ TCP/IP protocol stack enabling the web server
 to perform network processing of the client requests request and ~~the a~~ corresponding
~~responses~~ response within the user space[;]

~~wherein the web server is configured to poll the network interface periodically.~~

10 (original). The server of claim 9, wherein the interpreter comprises an HTTP interpreter.

11-13 (canceled).

14 (original). The server of claim 9, wherein the web server includes a user space file cache.

15 (original). The server of claim 9, wherein the web server is configured to initiate multiple
 threads within its user space responsive to user requests.

16 (original). The server of claim 15, wherein the threads include threads selected from the
 group of threads including perl scripts, cgi threads, and Java servlets.

17 (currently amended). A computer program product comprising computer executable
instructions, residing on a computer readable medium, for processing client requests in a data
 processing server, the instructions comprising:

~~code means~~ instructions for mapping a network interface to the user space of a web server
 application;

~~code means~~ for polling the network interface to determine the arrival of a network packet;

~~code means~~ instructions within the web server application user space for processing the
 network packet;

~~code means~~ instructions within the web server application user space for interpreting an
 application layer header of the network packet; and

~~code means~~ instructions for generating a response to the network packet including user
 space code means for retrieving an HTML file, user space code means for executing a
 perl script, and user space code means for executing a Java servlet

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wherein the ~~code means~~ instructions for processing the network packet comprise a user space TCP/IP protocol stack.

18 (canceled).

19 (currently amended). The computer program product of claim ~~18~~ 17, wherein the ~~code means~~ instructions for interpreting the application layer header comprises an HTTP interpreter.

20 (canceled).

21 (new) The server of claim 1, wherein the web server is configured to poll the network interface periodically.

22 (new) The server of claim 9, wherein the web server is configured to poll the network interface periodically.

23 (new) The computer program product of claim 17, further comprising instructions for polling the network interface to determine the arrival of a network packet.

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